JUN 2 1 2001

P#32

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

SEQUENCE LISTING

PATENT APPLICATION: US/08/728,463B

DATE: 05/17/2001 TIME: 10:08:31

Input Set : A:\-90-2.app

Output Set: N:\CRF3\05172001\H728463B.raw

ENTERED

```
(1) GENERAL INFORMATION:
             (i) APPLICANT: Lonberg, Nils
      6
      7
                             Kay, Robert M.
      9
            (ii) TITLE OF INVENTION: Transgenic Non-Human Animals for
     10
                                      Producing Heterologous Antibodies
           (iii) NUMBER OF SEQUENCES: 409
     12
            (iv) CORRESPONDENCE ADDRESS:
     14
                   (A) ADDRESSEE: Townsend and Townsend and Crew LLP
     15
                   (B) STREET: Two Embarcadero Center, Eighth Floor
     16
     17
                  (C) CITY: San Francisco
     18
                  (D) STATE: California
     19
                  (E) COUNTRY: USA
                  (F) ZIP: 94111-3834
     20
             (V) COMPUTER READABLE FORM:
     23
                  (A) MEDIUM TYPE: Floppy disk
                  (B) COMPUTER: IBM PC compatible
     24
     25
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     26
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
     28
            (vi) CURRENT APPLICATION DATA:
C--> 29
                  (A) APPLICATION NUMBER: US/08/728,463B
C--> 30
                  (B) FILING DATE: 10-Oct-1996
     31
                  (C) CLASSIFICATION:
     89
           (vii) PRIOR APPLICATION DATA:
     34
                  (A) APPLICATION NUMBER: US 08/544,404
     35
                  (B) FILING DATE: 10-OCT-1995
     38
                  (A) APPLICATION NUMBER: US 08/352,322
     39
                  (B) FILING DATE: 07-DEC-1994
     42
                  (A) APPLICATION NUMBER: US 08/209,741
                  (B) FILING DATE: 09-MAR-1994
     43
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                (A) APPLICATION NUMBER: US 08/165,699
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                  (B) FILING DATE: 10-DEC-1993
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                  (A) APPLICATION NUMBER: US 08/161,739
     5-1
                  (B) FILING DATE: 03-DEC-1993
                  (A) APPLICATION NUMBER: US 08/155,301
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                  (B) FILING DATE: 18-NOV-1993
     55
                  (A) APPLICATION NUMBER: US 08/096,762
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                  (B) FILING DATE: 22-JUL-1993
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                  (A) APPLICATION NUMBER: US 08/053,131
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                  (B) FILING DATE: 26-APR-1993
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                  (A) APPLICATION NUMBER: US 07/990,860
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                  (B) FILING DATE: 16-DEC-1992
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                  (A) APPLICATION NUMBER: US 07/904,068
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                  (B) FILING DATE: 23-JUN-1992
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                  (A) APPLICATION NUMBER: US 07/853,408
    75
                  (B) FILING DATE: 18-MAR-1992
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(A) APPLICATION NUMBER: US 07/810,279

78

DATE: 05/17/2001

TIME: 10:08:31

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Input Set : A:\-90-2.app
                     Output Set: N:\CRF3\05172001\H728463B.raw
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                  (B) FILING DATE: 17-DEC-1991
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                  (A) APPLICATION NUMBER: US 07/575,962
                  (B) FILING DATE: 31-AUG-1990
     83
     86
                  (A) APPLICATION NUMBER: US 07/574,748
                  (B) FILING DATE: 29-AUG-1990
     8.7
                  (A) APPLICATION NUMBER: WO PCT/US91/06185
     90
     91
                  (B) FILING DATE: 29-AUG-1991
          (viii) ATTORNEY/AGENT INFORMATION:
     93
                  (A) NAME: Serafini, Andrew T.
     94
                  (B) REGISTRATION NUMBER: 41,303
     95
     96
                  (C) REFERENCE/DOCKET NUMBER: 014643-009020US
            (ix) TELECOMMUNICATION INFORMATION:
     98
                  (A) TELEPHONE: (415) 576-0200
     99
                   (B) TELEFAX: (415) 576-0300
     100
     103 (2) INFORMATION FOR SEQ ID NO: 1:
           (i) SEQUENCE CHARACTERISTICS:
     105
     106
                   (A) LENGTH: 10 base pairs
     107
                   (B) TYPE: nucleic acid
     108
                   (C) STRANDEDNESS: single
     109
                   (D) TOPOLOGY: linear
W--> 111
             (ii) MOLECULE TYPE: DNA
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
                                                                                   10
     116 CTAADTGGGG
     119 (2) INFORMATION FOR SEQ ID NO: 2:
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     122
                   (A) LENGTH: 5 amino acids
     123
                   (B) TYPE: amino acid
                   (C) STRANDEDNESS:
     124
     125
                   (D) TOPOLOGY: linear
             (ii) MOLECULE TYPE: peptide
     127
     130
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
     132
              Asp Ala Phe Asp Ile
     133
     136 (2) INFORMATION FOR SEQ ID NO: 3:
     138
              (i) SEQUENCE CHARACTERISTICS:
     139
                   (A) LENGTH: 5 amino acids
     140
                   (B) TYPE: amino acid
     141
                   (C) STRANDEDNESS:
                   (D) TOPOLOGY: linear
     142
     144
             (ii) MOLECULE TYPE: peptide
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             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
    149
              Asp Tyr Phe Asp Tyr
    150
              1
     153 (2) INFORMATION FOR SEQ ID NO: 4:
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    155
    156
                   (A) LENGTH: 5 amino acids
    157
                   (B) TYPE: amino acid
    158
                   (C) STRANDEDNESS:
    159
                   (D) TOPOLOGY: linear
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/728,463B

1)

DATE: 05/17/2001

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TIME: 10:08:31
                      PATENT APPLICATION: US/08/728,463B
                      Input Set : A:\-90-2.app
                      Output Set: N:\CRF3\05172001\H728463B.raw
             (ii) MOLECULE TYPE: peptide
     161
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
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     166
              Gly Ala Phe Asp Ile
     167
              1
     170 (2) INFORMATION FOR SEQ ID NO: 5:
              (i) SEQUENCE CHARACTERISTICS:
     172
     173
                    (A) LENGTH: 4 amino acids
     174
                    (B) TYPE: amino acid
     175
                    (C) STRANDEDNESS:
     176
                    (D) TOPOLOGY: linear
     178
             (ii) MOLECULE TYPE: peptide
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
     181
     183
              Lys Glu Arg Val
     184
              1
     187 (2) INFORMATION FOR SEQ ID NO: 6:
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              (i) SEQUENCE CHARACTERISTICS:
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                    (A) LENGTH: 4 amino acids
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                    (B) TYPE: amino acid
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                    (C) STRANDEDNESS:
     193
                    (D) TOPOLOGY: linear
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             (ii) MOLECULE TYPE: peptide
     198
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
     200
              Asn Asp Ser Val
     201
     204 (2) INFORMATION FOR SEQ ID NO: 7:
     206
              (i) SEQUENCE CHARACTERISTICS:
     207
                   (A) LENGTH: 12 base pairs
     208
                  (B) TYPE: nucleic acid
     209
                   (C) STRANDEDNESS: single
     210
                   (D) TOPOLOGY: linear
W--> 212
             (ii) MOLECULE TYPE: RNA
     215
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
     217 AAAGAAAGAG UU
                                                                                   12
     220 (2) INFORMATION FOR SEQ ID NO: 8:
     222
              (i) SEQUENCE CHARACTERISTICS:
     223
                   (A) LENGTH: 12 base pairs
     224
                   (B) TYPE: nucleic acid
     225
                   (C) STRANDEDNESS: single
     226
                   (D) TOPOLOGY: linear
             (ii) MOLECULE TYPE: RNA
W--> 228
     231
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
                                                                                   12
     233 AACGACAGCG UU
     236 (2) INFORMATION FOR SEQ ID NO: 9:
     238
              (i) SEQUENCE CHARACTERISTICS:
     239
                   (A) LENGTH: 15 base pairs
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                   (B) TYPE: nucleic acid
     241
                   (C) STRANDEDNESS: single
     242
                   (D) TOPOLOGY: linear
W--> 244
             (ii) MOLECULE TYPE: DNA
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RAW SEQUENCE LISTING

DATE: 05/17/2001

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Input Set : A:\-90-2.app Output Set: N:\CRF3\05172001\H728463B.raw (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9: 15 249 GAGCTGAGCT GGGGT 252 (2) INFORMATION FOR SEQ ID NO: 10: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs 255 256 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 257 258 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA W--> 260 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: 263 20 265 GAGCTGAGCT GAGCTGGGGT 268 (2) INFORMATION FOR SEQ ID NO: 11: 270 (i) SEQUENCE CHARACTERISTICS: 271 (A) LENGTH: 25 base pairs 272 (B) TYPE: nucleic acid 273 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 274 (ii) MOLECULE TYPE: DNA W--> 276 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11: 279 25 281 GAGCTGAGCT GAGCTGAGCT GGGGT 284 (2) INFORMATION FOR SEQ ID NO: 12: (i) SEQUENCE CHARACTERISTICS: 287 (A) LENGTH: 30 base pairs 288 (B) TYPE: nucleic acid 289 (C) STRANDEDNESS: single 290 (D) TOPOLOGY: linear W--> 292 (ii) MOLECULE TYPE: DNA 295 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: 30 297 GAGCTGAGCT GAGCTGAGCT GAGCTGGGGT 300 (2) INFORMATION FOR SEQ ID NO: 13: (i) SEQUENCE CHARACTERISTICS: 302 303 (A) LENGTH: 35 base pairs 304 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 305 306 (D) TOPOLOGY: linear W--> 308 (ii) MOLECULE TYPE: DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13: 35 313 GAGCTGAGCT GAGCTGAGCT GGGGT 316 (2) INFORMATION FOR SEQ ID NO: 14: (i) SEQUENCE CHARACTERISTICS: 319 (A) LENGTH: 40 base pairs 320 (B) TYPE: nucleic acid 321 (C) STRANDEDNESS: single 322 (D) TOPOLOGY: linear W--> 324 (ii) MOLECULE TYPE: DNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14: 40 329 GAGCTGAGCT GAGCTGAGCT GAGCTGGGGT 332 (2) INFORMATION FOR SEQ ID NO: 15: (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/728,463B

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RAW SEQUENCE LISTING
                                                      DATE: 05/17/2001
                  PATENT APPLICATION: US/08/728,463B
                                                      TIME: 10:08:31
                  Input Set : A:\-90-2.app
                  Output Set: N:\CRF3\05172001\H728463B.raw
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                 (B) TYPE: nucleic acid
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                 (C) STRANDEDNESS: single
    337
                 (D) TOPOLOGY: linear
    338
W--> 340
           (ii) MOLECULE TYPE: DNA
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
    343
    345 GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GGGGT
                                                                       45
    348 (2) INFORMATION FOR SEQ ID NO: 16:
            (i) SEQUENCE CHARACTERISTICS:
    350
    351
                 (A) LENGTH: 50 base pairs
    352
                 (B) TYPE: nucleic acid
    353
                 (C) STRANDEDNESS: single
    354
                 (D) TOPOLOGY: linear
W--> 356
           (ii) MOLECULE TYPE: DNA
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
    359
                                                                       50
    364 (2) INFORMATION FOR SEQ ID NO: 17:
            (i) SEQUENCE CHARACTERISTICS:
    366
    367
                 (A) LENGTH: 55 base pairs
                 (B) TYPE: nucleic acid
    368
                 (C) STRANDEDNESS: single
    369
                 (D) TOPOLOGY: linear
    370
           (ii) MOLECULE TYPE: DNA
W--> 372
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
    375
    55
    380 (2) INFORMATION FOR SEQ ID NO: 18:
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    382
    383
                 (A) LENGTH: 60 base pairs
    384
                 (B) TYPE: nucleic acid
    385
                 (C) STRANDEDNESS: single
                 (D) TOPOLOGY: linear
    386
W--> 388
           (ii) MOLECULE TYPE: DNA
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
    391
                                                                       60
    396 (2) INFORMATION FOR SEQ ID NO: 19:
           (i) SEQUENCE CHARACTERISTICS:
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    399
                (A) LENGTH: 65 base pairs
    400
                (B) TYPE: nucleic acid
                (C) STRANDEDNESS: single
    401
    402
                (D) TOPOLOGY: linear
           (ii) MOLECULE TYPE: DNA
W --> 404
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
    407
                                                                       60
    65
    411 GGGGT
    414 (2) INFORMATION FOR SEQ ID NO: 20:
            (i) SEQUENCE CHARACTERISTICS:
    416
    417
                (A) LENGTH: 70 base pairs
    418
                (B) TYPE: nucleic acid
    419
                (C) STRANDEDNESS: single
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 VERIFICATION SUMMARY
 DATE: 05/17/2001

 PATENT APPLICATION: US/08/728,463B
 TIME: 10:08:32

Input Set : A:\-90-2.app

Output Set: N:\CRF3\05172001\H728463B.raw

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L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
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L:212 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7
L:228 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8
L:244 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:260 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:276 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11
L:292 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12
L:308 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=13
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L:340 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:356 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:372 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
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L:422 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=20
L:440 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21
L:458 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22
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L:512 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
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L:912 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=50
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VERIFICATION SUMMARY
PATENT APPLICATION: US/08/728,463B
DATE: 05/17/2001
TIME: 10:08:32

Input Set : A:\-90-2.app

Output Set: N:\CRF3\05172001\H728463B.raw

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L:2727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 L:2787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143

L:6243 M:361 W: Invalid Split Codon, Sequence data for SEQ ID#: 298

Application No.: <u>08/728,463</u>

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.	
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).	
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).	
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."	
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).	
6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).	
7. Other: page 38 of the instant specification, lines 16, 17 and 18 contain 4 sequence which are not identified by a SEQ ID tag. Furthermore, on page 163 of the instant specification, lines 24 and 25 contain 2 sequences which are not identified by a SEQ ID tag. Furthermore on page 254-256, SEQ ID NO:s 1-10 do not agree with SEQ ID NO:s 10 of the CRF and paper copy submitted with the CRF.	
Applicant Must Provide:	
An initial or <u>substitute</u> computer readable form (CRF) copy of the "Sequence Listing".	
An initial or <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entrinto the specification.	г у
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).	
For questions regarding compliance to these requirements, please contact:	
For Rules Interpretation, call (703) 308-4216 For CRF Submission Help, call (703) 308-4212 PatentIn Software Program Support (SIRA) Technical Assistance	
To Purchase Patentin Software703-306-2600	